IN THE CLAIMS

1.   (currently amended) A method ~~for generating a two-dimensional electronically modeled aircraft engine harnesses from a three-dimensional harness definition that includes a plurality of connector fittings coupled together with a plurality of branches, said method~~ comprising the steps of:

generating two-dimensional electronically modeled aircraft engine harnesses from a three-dimensional harness definition that includes a plurality of connector fittings coupled together with a plurality of branches, wherein said three-dimensional harness definition defines a harness, said generating the two-dimensional electronically modeled aircraft engine harnesses comprises:

defining each ~~harness connector fitting~~of the plurality of connector fittings;

determining design ~~parameters; and~~parameters of the harness;

generating a two-dimensional stick form ~~model.~~model from the three-dimensional harness definition;

creating, by a processor, a first line that extends from a first one of the plurality of connector fittings to a second one of the plurality of connector fittings; and

producing a second line that extends from said first line to a third one of said plurality of connector fittings.

2.   (original) A method in accordance with Claim 1 further comprising the steps of displaying the design parameters in a tabular output.

3.   (original) A method in accordance with Claim 2 wherein said step of determining design parameters further comprises the step of determining at least one of a branch angle, a base angle, and a true angle for the harness.

4.   (original) A method in accordance with Claim 2 wherein said step of determining design parameters further comprises the step of determining at least one of a wire length, a fitting keyway, and a master keyway for the harness.

5.   (original) A method in accordance with Claim 2 wherein said step of determining design parameters further comprises the steps of:

determining a length between harness branches; and

determining locations of diametrical changes of the harness.

6.   (currently amended) A modeling system for producing ~~an electronic~~a two-dimensional electronic model of an aircraft engine harness, said system ~~configured to~~configured to:

generate a two-dimensional electronic drawing from a three-dimensional harness definition that includes a plurality of connector fittings coupled together with a plurality of ~~branches.~~branches, wherein said three-dimensional harness definition defines a harness;

create a first line that extends from a first one of the plurality of connector fittings to a second one of the plurality of connector fittings; and

generate a second line that extends from said first line to a third one of said plurality of connector fittings to produce the two-dimensional electronic model.

7.   (original) A modeling system in accordance with Claim 6 wherein to generate the two-dimensional electronic model, said system further configured to determine at least one of a branch angle, a wire length, and a base angle of the harness.

8.   (original) A modeling system in accordance with Claim 6 wherein to generate the two-dimensional electronic model, said system further configured to determine at least one of a harness true angle, a fitting keyway, and a master keyway of the harness.

9.   (original) A modeling system in accordance with Claim 6 wherein said system further configured to determine a length between adjacent harness branches.

10.   (original) A modeling system in accordance with Claim 6 wherein said system further configured to determine diametrical changes of the harness branches.

11.   (currently amended) A modeling system in accordance with Claim 7 wherein said system further configured to define each ~~connector fitting~~of the connector fittings of the harness.

12.   (currently amended) A system for generating a two-dimensional electronic model of an aircraft engine harness from a three-dimensional aircraft engine harness definition that includes a plurality of connector fittings coupled together with a plurality of branches, said system comprising a processor programmed to determine harness design parameters from the three-dimensional aircraft engine harness ~~definition.~~definition, wherein said three-dimensional aircraft engine harness definition defines a harness, said two-dimensional electronic model of said aircraft engine harness is generated by creating a first line that extends from a first one of the plurality of connector fittings to a second one of the plurality of connector fittings, and said two-dimensional electronic model of said aircraft engine harness is generated by producing a second line that extends from said first line to a third one of said plurality of connector fittings.

13.   (original) A system in accordance with Claim 12 wherein said processor further programmed to determine parameters including at least one of a branch angle, a base angle, and a true angle.

14.   (original) A system in accordance with Claim 12 wherein said processor further programmed to determine parameters including at least one of a wire length, a fitting keyway, and a master keyway.

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15. (currently amended) A system in accordance with Claim 12 wherein said processor further programmed to <u>determine design parameters of the harness to </u>display the <s>harness</s> design parameters in a tabular format.

16. (currently amended) A system in accordance with Claim 12 wherein said processor further programmed to define each <s>harness connector fitting.</s><u>of the connector fittings.</u>

17. (original) A system in accordance with Claim 12 wherein said processor further programmed to determine a length between harness branches.

18. (original) A modeling system in accordance with Claim 12 wherein said processor further programmed to determine diametrical changes of the harness branches.